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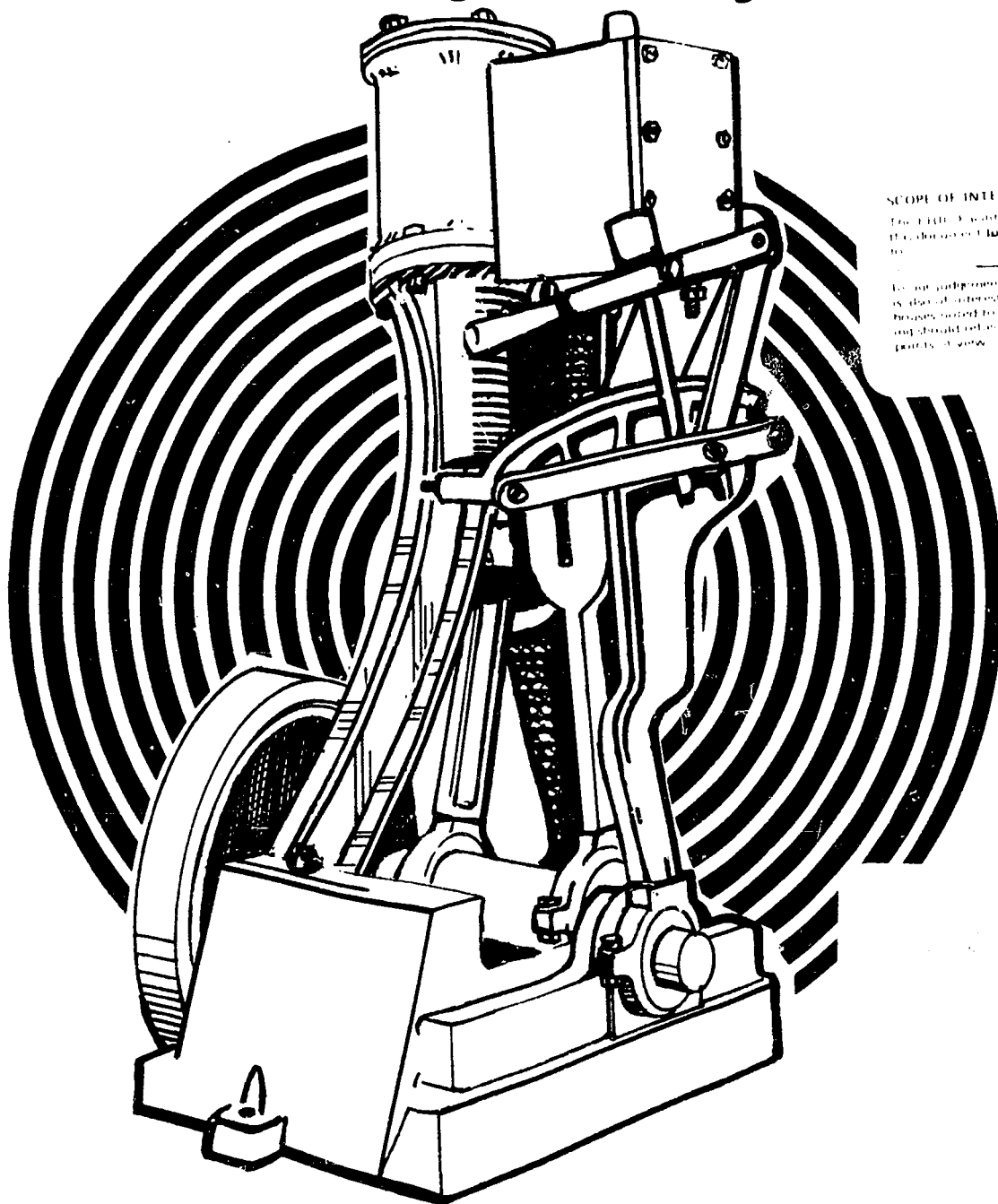
AUTHOR Clark, Roger
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ABSTRACT

The glossary is one of twenty in various subject areas of vocational education designed to assist the student in vocabulary mastery for particular vocational education courses. They are part of the Vocational Reading Power Project, Title III, E.S.E.A. This glossary is for a course in marine and small engines. It is divided into two parts: one provides the student with two definitions for each term listed; the second part lists the same words with space for the student's definition. It is intended that upon completion of the course, mutually agreeable definitions for each term will be arrived at by the instructor and the students. These definitions will be made available to future students taking the course. (AG)

MARINE & SMALL ENGINES

Glossary of Key Words



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Vocational Reading Power
E.S.E.A. Title III



588 000 885

Prepared by: Roger Clark ,
Instructor Marine & Small Engines
Northeast Oakland Area
Vocational Education Center

Vocational Reading Power Project
Title III, E.S.E.A.
Roy J. Butz, Ed.D.
J. Kenneth Cerny, Ed.D.
Jules H. Shrage
Lawrence J. Shepanek
Lynne E. Wick

Ruth Kobb
Mary Catherine Coyle

Oakland Schools



2100 Pontiac Lake Road
Pontiac, Michigan 48054
313-338-1101

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To The Student

This Glossary of Key Words was prepared to help you in your course. The words that follow were judged by your instructor to be the most important for you to understand.

Directions

The Glossary is divided into two parts. The first part lists the key words at the left side of the page. Across from the key words are two definitions for that word. The "A" definition is more difficult and specific. The "B" definition is easier and more general. During a learning activity, you are to use both definitions to help you understand. After the learning activity, you are to write your definition of the word as you understand it.

The second part just lists words. There is space for you to write your understanding of those words. Also, at the end of the booklet are blank lines. Here, you and your instructor will list and define the words which were left out.

At the end of the course, your definitions and the instructor's definitions will be joined together. These will be printed and given to the students who come after you have graduated. It is hoped that, with your help, the future students of vocational education will be greatly benefited.

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- a) PRIMARY
- b) SECONDARY

TECHNICAL

ADDITIVE

- a) As used with reference to automotive oils, a material added to the oil to give it certain properties. For example, a material added to engine oil to lessen its tendency to congeal or thicken at low temperatures.
- b) Improves engine oil.

APERTURE

- a) A gap; passage; an opening; hole or port.
- b) Applied to any opening in an otherwise solid wall or surface.

BACKLASH

- a) The clearance or "play" between two parts such as meshed gears.
- b) Movement between two gears.

CAMSHAFT

- a) A shaft with cams machined at correct intervals to actuate the valve lifting mechanisms.
- b) A shaft with lobes to open and close the engine valves.

CONCENTRIC

- a) Two or more circles having a common axis.
- b) Having a common center.

CONDENSER

- a) Consisting of conducting plates or foils separated by thin layers of dielectric layers oppositely charged by a source of voltage and the electrical energy of the charged system stored in the polarized dielectric.
- b) Is a device for temporarily storing a surge of electrical current for later discharge. An older name for capacitor.

CRANKCASE

- a) The lower part of an engine structure surrounding the crankshaft and many other parts that operate in the engine.
- b) The housing of a crankshaft.

CYLINDER

- a) A round hole having some depth bored to receive a piston; also sometimes referred to as "bore" or "barrel."
- b) Like an open tin can, open at one end and closed at the other.

TECHNICAL

ADDITIVE

APERTURE

BACKLASH

CAMSHAFT

CONCENTRIC

CONDENSER

CRAIKCASE

CYLINDER

- a) PRIMARY
- b) SECONDARY

ENGINE

- a) A form of power-producing machine, such as an internal- or external-combustion engine. An example of an internal-combustion engine is the gas and diesel types, whereas a steam engine is of the external-combustion type.
- b) The term applies to the prime source of power generation.

GLAZE

- a) As used to describe the surface of the cylinder, an extremely smooth or glossy surface such as a cylinder wall highly polished over a long period of time by the friction of the piston rings.
- b) A smooth shiny surface.

GUM

- a) In automotive fuels, this refers to oxidized petroleum products which accumulate in the fuel system, carburetor or engine parts.
- b) From gas left in engine when stored for a long time.

HEEL

- a) A bump which is eccentric on a shaft such as the lobe on a camshaft or the teeth on a gear.
- b) The outside or larger half of the gear teeth.

KNURL

- a) A small protuberance, excrescence, or knob. One of a series of small ridges or beads on a metal surface to aid in gripping.
- b) To indent or roughen a finished surface.

LAPPING

- a) To work two surfaces together with or without abrasives until a very close fit is produced.
- b) To seat or fit valves.

MAGNETO

- a) An electrical device which generates current when rotated by an outside source of power; may be used for the generation of either low tension or high tension current.
- b) Makes voltage to jump spark plug gap.

MANIFOLD

- a) A pipe with multiple openings used to connect various cylinders to one inlet or outlet.
- b) A system of tubes and pipes.

ENGINE

GLAZE

GUM

HEEL

KNURL

LAPPING

MAGNETO

MANIFOLD

- a) PRIMARY
- b) SECONDARY

MISFIRING

- a) Said of an internal-combustion engine when its explosive charge fails to ignite at the proper time.
- b) The spark plug doesn't start the burning in one or more cylinders with engine running.

MOTOR

- a) A rotating machine that transforms electrical energy into mechanical energy.
- b) Actually this term should be used in connection with an electric motor and should not be used when referring to the engine.

MUFFLER

- a) A chamber attached to the end of the exhaust pipe which allows the exhaust gases to expand and cool. It is usually fitted with baffles or porous plates and serves to subdue much of the noise created by the exhaust.
- b) Quiets exhaust noise.

PISTON

- a) A cylindrical part of an engine fitted into the cylinder bore, and which transmits the force of explosion to the connecting rod and crank.
- b) A movable plug which fits snugly into the cylinder of an engine.

PORT

- a) In engines, the openings in the cylinder block for valves, exhaust and inlet pipes, or water connections. In two-cycle engines the openings for inlet and exhaust purposes.
- b) Opening in a cylinder for intake and exhaust.

PORTING

- a) As applied to racing engines, the enlarging, matching streamlining and polishing of the inside of the manifolds and valve ports to reduce the friction of the flow of gases.
- b) Making bigger and smoothing the inside of the manifolds of an engine to help gases flow better.

RACE

- a) As used with reference to bearings, a finished inner and outer surface in which, or on which, balls or rollers operate.
- b) Hardened steel surfaces on which ball bearings or rollers operate.

MISFIRING

MOTOR

MUFFLER

PISTON

PORT

PORTING

RACE

- a) PRIMARY
- b) SECONDARY

RETARD

- a) When used with reference to an ignition distributor, means to cause the spark to occur at a later time in the cycle of engine operations; opposite of spark advance.
- b) The piston is closer to top dead center when spark plug fires.

SEAT

- a) A surface, usually machined, upon which another part rests or seats.
- b) The surface upon which a valve face rests.

STELLITE

- a) An alloy of cobalt, chrome and tungsten which is often used for exhaust valve seat inserts. It has a high melting point, good corrosion resistance and unusual hardness when hot.
- b) A super hard exhaust valve seat.

STROBOSCOPE

- a) An instrument used to measure the speed of a rotating machine or examine its operation. It consists of a variable speed flashing light. It can be synchronized with the rotating machine. At synchronized speed, the rotating parts appear stationary.
- b) A flashing light which makes a turning wheel look like it is standing still.

SUPERCHARGER

- a) A blower or pump which forces air into the cylinders at higher than atmospheric pressure. In an engine the increased pressure forces more air into the cylinder, thus enabling more gasoline to be burned and more power produced.
- b) A blower or air pump to force fuel-air mixture into cylinders, improving engine output.

TAPPET

- a) A lever or projection moved by some other piece (as a cam) or intended to tap or touch something else to cause a particular motion (as in forms of internal-combustion engine valve gear).
- b) An adjusting screw in the valve train of an engine to assure proper clearances between valve stem and cam.

RETARD

SEAT

STELLITE

STROBOSCOPE

SUPERCHARGER

TAPPET

- a) PRIMARY
- b) SECONDARY

TURBINE

- a) A rotary engine actuated by the reaction or impulse, or both of a current of fluid (as water or steam) subject to pressure and usually made with a series of curved vanes on a central rotating spindle.
- b) Same.

TURBINE

- a) PRIMARY
- b) SECONDARY

GENERAL TECHNICAL

- ALIGNMENT
- a) The proper positioning of parts in relation to each other.
 - b) A forming in a line.
- AMMETER
- a) An instrument for measuring electric current in amperes.
 - b) A meter used to measure current.
- AMPERE
- a) The current produced by an electromotive force of one volt acting through a resistance of one ohm.
 - b) The usual unit of current strength.
- ARMATURE
- a) That part of an electrical machine which includes the main current-carrying winding. It is usually the core which rotates within the pole shoes which are surrounded by the field coils.
 - b) The rotating core of soft metal upon which there is a wire winding.
- BATTERY
- a) Several voltaic cells connected in series or parallel. Usually contained in one case.
 - b) Two or more electrical cells connected together.
- BORE
- a) The diameter of a hole, such as a cylinder.
 - b) The inside space of the tube from one side to the other.
- CARBON
- a) A common non-metallic element which is an excellent conductor of electricity. It also forms in the combustion chambers of an engine during the burning of fuel and lubricating oil.
 - b) Black build-up in the engine cylinder.
- CARBURETOR
- a) A device for automatically mixing fuel in the proper proportions with air to produce a combustible gas.
 - b) Mixing place for air and fuel.

GENERAL TECHNICAL

ALIGNMENT

AMMETER

AMPERE

ARMATURE

BATTERY

BORE

CARBON

CARBURETOR

- a) PRIMARY
- b) SECONDARY

CHAMFER	<ul style="list-style-type: none">a) A bevel or taper at the edge of a hole.b) A rounded corner.
CIRCUIT	<ul style="list-style-type: none">a) The path of electrical current; fluids or gases. Examples for electricity: a wire; for fluids and gases: a pipe.b) An uncontrolled route.
CLEARANCE	<ul style="list-style-type: none">a) An intervening space, as between machine parts for free play.b) The amount of space between parts.
COMPRESSION	<ul style="list-style-type: none">a) The reduction in volume and increase of pressure of the air or combustible mixture in the cylinder prior to ignition, produced by the motion of the piston toward the cylinder head after intake.b) The squeezing of a gas, as a piston moves from bottom to top with all valves closed.
CONDUCTOR	<ul style="list-style-type: none">a) A material alone or through which electricity will flow with slight resistance, silver, copper, and carbon are good conductors.b) A material that electricity will flow through.
CONTRACTION	<ul style="list-style-type: none">a) A compression or reduction in dimension of an object.b) The tightening of an object.
CONVECTION	<ul style="list-style-type: none">a) A transfer of heat by circulating heated air.b) The moving of heat by air.
CONVERTER	<ul style="list-style-type: none">a) An object that transfers power.b) An object that carries power.
CORRODE	<ul style="list-style-type: none">a) The slow oxidation and wasting away of metals.b) To eat away; such as rust.
COUNTERBORE	<ul style="list-style-type: none">a) To drill a second larger hole using the same center as the original hole to a specified depth.b) To enlarge a hole to a given depth.
COUPLING	<ul style="list-style-type: none">a) A connecting means for transferring movement from one part to the other, maybe mechanical, hydraulic or electrical.b) Joining together.

CHAMFER

CIRCUIT

CLEARANCE

COMPRESSION

CONDUCTOR

CONTRACTION

CONVECTION

CONVERTER

CORRODE

COUNTERBORE

COUPLING

- a) PRIMARY
- b) SECONDARY

CURRENT

- a) The transferring of electrical energy in a conductor by means of electrons moving constantly and changing positions in a vibrating manner.
- b) The flow of electricity.

DEGREE

- a) May be used to designate temperature readings or may be used to designate angularity, one degree being $1/360$ part of a circle.
- b) One degree equal $1/360$ of a circle.

DYNAMOMETER

- a) An instrument for measuring mechanical force of an internal combustion engine.
- b) A machine for measuring force or power.

ECCENTRIC

- a) One circle within another circle, wherein both circles do not have the same center. An example is a cam on a camshaft.
- b) Same.

ELECTRODE

- a) The insulated center rod of a spark plug; a conductor used to establish electrical contact with a nonmetallic part of a circuit.
- b) Same.

ENERGY

- a) The ability to produce action or effort.
- b) Being able to do work.

EXPANSION

- a) The increase in volume in an internal combustion engine during the burning of the compressed mixture.
- b) An increase in size.

FLOAT

- a) A hollow tank which is lighter than the fluid in which it rests and which is ordinarily used to operate automatically. A valve controlling entrance of the fluid.
- b) To rest on top of a liquid.

GASKET

- a) A flat piece of rubber, asbestos, metal or paper material placed between mating parts to prevent leakage.
- b) A material to stop leaking.

CURRENT

DEGREE

DYNAMOMETER

ECCENTRIC

ELECTRODE

ENERGY

EXPANSION

FLOAT

GASKET

- a) PRIMARY
- b) SECONDARY

GENERATOR

- a) A machine by which mechanical energy is changed to electrical energy.
- b) A device which makes electricity.

GROWLER

- a) An electrical device for testing electric motor or generator armatures for short circuits.
- b) A device for testing armatures.

HELICAL

- a) Shaped like a coil or wire or a screen thread (used for restoring screw threads).
- b) Coil shaped.

HYDROMETER

- a) An instrument for determining the state of charge in a battery by finding specific gravity of the electrolyte.
- b) A device used to check the charge of a battery.

OHM

- a) The resistance of a conductor in which one volt produces a current of one ampere.
- b) The unit of measurement of resistance.

OSCILLATE

- a) To swing or move to and fro between two points.
- b) To move back and forth.

OVERDRIVE

- a) Any arrangement of gearing which produces more revolutions of the driven shaft than of the driving shaft.
- b) A special gear ratio, that lets the engine run slower, and saves gas and engine wear.

OXIDIZE

- a) To combine oxygen with one or more other elements. Metal is oxidized when combined with oxygen and burned with cutting torch; soldering flux dissolves oxides that form due to air contacting metal surface.
- b) Cutting metal with a torch.

PINION

- a) A small gear having the teeth formed in the hub.
- b) A small gear.

GENERATOR

GROWLER

HELICAL

HYDROMETER

OHM

OSCILLATE

OVERDRIVE

OXIDIZE

PINION

- a) PRIMARY
- b) SECONDARY

POLARITY

- a) Refers to the positive or negative terminal of a battery or an electric circuit; also the North or South Pole of a magnet.
- b) North or South Pole or (+) or (-).

QUENCHING

- a) A process of rapid cooling of heat metal by contact with liquid, gases or solids.
- b) Fast cooling of metal in water.

RATIO

- a) The relation or proportion that one number bears to another.
- b) 2:1 or two to one.

REAM

- a) To finish a hole accurately with a rotating fluted tool.
- b) Smoothing and sizing holes in metal.

RECTIFIER

- a) A component or device used to convert alternating current into a pulsating direct current.
- b) Changing AC to DC.

SHIM

- a) Small pieces of feeler stock used in adjusting the fit of bearings and machined parts.
- b) Thin sheets used as spacers between two parts.

SHUNT

- a) In electrical apparatus, an alternate path for the current. Shunts are used to increase the range of a meter.
- b) To by-pass around.

SOLENOID

- a) An iron core surrounded by a coil of wire which moves due to magnetic attraction when an electrical current is fed to the coil; often used to actuate mechanisms by electrical means.
- b) Electrical magnet switch.

TACHOMETER

- a) A device for measuring and indicating the rotative speed of an engine, wheel or shaft.
- b) Measures rotating speed.

POLARITY

QUENCHING

RATIO

REAM

RECTIFIER

SHIM

SHUNT

SOLENOID

TACHOMETER

- a) PRIMRARY
- b) SECONDARY

THERMOSTAT

- a) A temperature-controlled valve in the cooling system of an engine to maintain a constant operating temperature.
- b) Control of heat.

TORQUE

- a) Forces producing twisting or rotating motion. It is measured in pound-inch and pound-feet.
- b) A twisting or turning effort.

TURBULENCE

- a) A disturbed or disordered, irregular motion of fluids or gases.
- b) Mixed up air or water.

VACUUM

- a) A perfect vacuum has not been created as this would involve an absolute lack of pressure. The term is ordinarily used to describe a partial vacuum, that is, a pressure less than atmospheric pressure; in other words a suction.
- b) A space with nothing in it.

VALVE

- a) A device used to open and close the port between the intake manifold and the combustion chamber or between the combustion chamber and the exhaust manifold. Valve operation is timed for proper engine operation.
- b) A device for opening and sealing a port.

THERMOSTAT

TORQUE

TURBULENCE

VACUUM

VALVE

CLUSTER WORDS

Active Material _____

Air Cleaner _____

Air-Fuel Ratio _____

Air-Gap _____

Air Horn _____

Air Lock _____

Allen Wrench _____

Alternating Current _____

Ampere-Hour Capacity _____

Anchor Aweigh _____

Anchor Buoy _____

Anchor Light _____

Anchor Watch _____

Anticlock-wise Rotation _____

Annular Ball Bearing _____

Anti-Freeze _____

Anti-Friction Bearing _____

Arc Welding _____

Atmospheric Pressure _____

Backfire _____

Back Lash _____

Back Pressure _____

Back Wash _____

Ball Bearing _____

Beam Sea _____

Bending Shackle _____

Bilge Pump _____

Bilge Water _____

Bitter End _____

Blow-By _____

Boat Hook _____

Boiling Point _____

Boring Bar _____

Bottled Gas _____

Bow Line _____

Brake Horsepower _____

Breaker Arm _____

Break-In _____

Brinell Hardness _____

Broaching To _____

B.T.D.C. (Before Top Dead Center) _____

Buckled Plate _____

Bulk Head _____

By-Pass _____

Cable Length _____

Calorific Valve _____

Cam Angle _____

Cam Ground Piston _____

Can Buoy _____

Cape Chisel _____

Carbon Dioxide _____

Carbon Monoxide _____

Case-Harden _____

Casing Head Gasoline _____

Cast-Off _____

Cell Connector _____

Center Board _____

Center of Gravity _____

Center Line _____

Centrifugal Force _____

Chafing Gear _____

Chain Plates _____

Check-Valve _____

Chemical Compound _____

Chemical Element _____

Chilled Iron _____

Chromium Steel _____

Clerk Cycle _____

Clockwise Rotation _____

Cockpit _____

Coefficient of Friction _____

Compound Winding _____

Compression Ratio _____

Connecting Rod _____

Connecting Rod Bearing_____

Contact Points_____

Crankshaft_____

Crankshaft Counterbalance_____

Cut-Out_____

Cylinder Block_____

Cylinder Bore_____

Cylinder Head_____

Cylinder Liner_____

Cylinder Sleeve_____

Dagger Board_____

Dash Pot _____

Dead Center _____

Dead Head _____

Denatured Alcohol _____

Dial Gauge _____

Die Casting _____

Diesel Engine _____

Direct Current _____

Dog Clutch _____

Dowel Pin _____

Down-Draft _____

Draw Filing_____

Drive-Fit_____

Drop Forging_____

Dry Batteries_____

Dry Rot_____

Dual-Fuel Engine_____

Dwell Period_____

Earth Connection_____

Ease Off_____

Ease The Rudder_____

Electro-Magnet_____

E.M.F. (Electromotive Force) _____

Engine Displacement _____

Ethyl Gasoline _____

Even Keel _____

Exhaust Gas Analyzer _____

Exhaust Pipe _____

Expansion Period _____

Fake Down _____

False Keel _____

Fan Tail _____

Feeler Gauge _____

Ferrous Metal _____

F-Head Engine _____

Field Coil _____

Flash Point _____

Flat Boat _____

Float Level _____

Floating Piston Pin _____

Fly Wheel _____

Foot-Pound _____

Foul Anchor _____

Four-Stroke Cycle _____

Free Board _____

Fuel Knock _____

Fuel Pump _____

Gear Case _____

Gear Ratio _____

Glase Breaker _____

Ground Tackle _____

Gudgeon Pin _____

Hand Lead _____

Hard Over _____

Hard Solder _____

Harmonic Balancer _____

Headway _____

Heat Exchanger _____

Heat Riser _____

Heat Treatment _____

Heave Ho _____

Heave The Lead _____

Heave To _____

Heaving Line _____

Helical Gear _____

Herring Bone Gear _____

High Tension _____

Horse Power _____

Hot Spot _____

Hunting Link _____

Hydrocarbon Engine _____

Ignition Distributor _____

Ignition Timing _____

In. (one inch) _____

Indicated Horsepower (IHP) _____

Induction Coil _____

Inland Rules of the Road _____

Intake Manifold _____

Intake Valve _____

Internal Combustion Engine _____

Kilowatt Hour _____

Kit Boat _____

Landfall _____

Lead Line _____

Log Book _____

Lower Unit _____

Magnetic Field _____

Mechanical Efficiency _____

Mechanical Equivalent of Heat _____

Mercury Column _____

Mooring Buoy _____

Mushroom Anchor _____

Needle Bearing _____

Negative Pole _____

Nickel Steel _____

Non-Ferrous Metals _____

North Pole _____

Nose Heavy _____

Octane Number _____

Octane Selector_____

Off Shore Wind_____

Oil Pumping_____

Open Circuit_____

Otto Cycle_____

Outboard Motor_____

Overhead Valve_____

Overrun Coupling_____

Pay Out_____

Phillips Screw_____

Pilot Valve_____

Pinion Carrier _____

Piston Clearance _____

Piston Collapse _____

Piston Deflector _____

Piston Displacement _____

Piston Head _____

Piston Lands _____

Piston Pin _____

Piston Ring Expander _____

Piston Ring Gap _____

Piston Ring Groove _____

Piston Rings _____

Piston Skirt _____

Piston Skirt Expander _____

Piston Stroke _____

Poppet Valve _____

Positive Pole _____

Potential Difference _____

Potential Drop _____

Pre-Heating _____

Pre-Ignition _____

Pre-Loading _____

Press-Fit _____

Primary Winding _____

Prony Brake _____

Push Rod _____

Radial Engine _____

Radio Compass _____

Radio Compass Station _____

Remote Control _____

Rocker Arm _____

Rockwell Hardness _____

Roller Bearing_____

Rotary Valve_____

Round Bottom_____

Rubber Indicator_____

Running-Fit_____

SAE (Society of Automotive Engineers)_____

SAE Thread_____

Safety Factor_____

Safety Relief Valve_____

Sand Blast_____

Say Bolt Test_____

Sea Buoy_____

Sealing Compound_____

Secondary Winding_____

Semi-Diesel_____

Series Winding_____

Short Circuit_____

Shrink-Fit_____

Shunt Winding_____

Shuttle Valve_____

Silicon Steel_____

Silver Soldering_____

Sleeve Valve _____

Sliding-Fit _____

Slip-In Bearing _____

Solid Injection _____

South Pole _____

Spark Advance _____

Spark Gap _____

Spark Ignition _____

Spark Knock _____

Spark Plug _____

Specific Gravity _____

Spiral Bevel Gear _____

Spline Joint _____

Spot Weld _____

Spur Gear _____

Spurt-Hole _____

Sq. Ft. (Square Feet) _____

Sq. In. (Square Inch) _____

Standard Thread _____

Static Electricity _____

Steel Casting _____

Stern Line_____

Stern Post_____

T.D.C. (Top Dead Center)_____

Thermal Efficiency_____

Thermo-Syphon_____

Third Brush_____

Timing Chain_____

Timing Gears_____

Torque Wrench_____

Trouble Shooting_____

Tune-Up_____

Two-Stroke Cycle Engine _____

Universal Joint _____

Up-Draft _____

Upper Cylinder Lubrication _____

Vacuum Gauge _____

Valve Clearance _____

Valve Face _____

Valve Grinding _____

Valve Head _____

Valve-In-Head Engine _____

Valve Key _____

Valve Lock _____

Valve Lifter _____

Valve Margin _____

Valve Overlap _____

Valve Seat _____

Valve Spring _____

Valve Stem _____

Valve Stem Guide _____

Vapor Lock _____

Vapor Pressure _____

Vapor Withdrawal _____

Vibration Damper_____

Voltage Regulator_____

Volumetric Efficiency_____

Water Column_____

Water Line_____

White Metal_____

Wiring Diagram_____

Worm Gear_____

Wrist Pin_____

NEED TO KNOW WORDS

Abaft _____

Abeam _____

Abreast _____

Accelerate _____

Adrift _____

Afoul _____

Amidships _____

Aquaplane _____

Batter Down _____

Barnacle _____

Batters _____

Beam _____

Beam Sea _____

Bearing (Direction) _____

Belay _____

Bending Shackle _____

Berth _____

Bilge _____

Bilge Pump _____

Bilge Water _____

Binnacle _____

Blow By _____

Bridge _____
